

Date: Thu, 21 Jan 93 04:30:18 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #88
To: Info-Hams

Info-Hams Digest Thu, 21 Jan 93 Volume 93 : Issue 88

Today's Topics:

 Constructing a Gaussmeter
 help needed
 HTs at Disneyland
 ICOM-725 Info. (was ICOM-726) (2 msgs)
 Northern Alberta Hamfest 93
 QRP on 20, 30, or 40 meters
 re. USCG CW changes

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 20 Jan 1993 20:38:49 GMT
From: news!dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!sdd.hp.com!
hpscit.sc.hp.com!hplextra!hpl-opus!hpnmdla!alanb@network.UCSD.EDU
Subject: Constructing a Gaussmeter
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, KID%MILO@cutter.iarc.mco.EDU writes:

>I am planning on building a gaussmeter for measuring low-level
>electromagnetic fields. The plans are from the June 1990 issue of
>73 Amateur Radio in an article by J. Frank Brumbaugh KB4ZGC.

For measuring 60-Hz fields, I understand that a garden-variety
bulk tape eraser works great. Just hook the line cord up to an
oscilloscope or AC voltmeter. You can calibrate it by running
a known AC current through a large single-turn coil. The field

at the center of the loop is (to within about 10%):

$$H = 2 \pi N I / 10r$$

where H is field strength in Gauss, N is number of turns, I is the current in amps and r is the radius in cm.

Example: a single-turn loop 11 inches in diameter (14 cm radius) gives 10 milligauss at its center with .223 A through it. You can get a more uniform field by using a Helmholtz coil, but the 1-turn loop is much simpler.

If you care about other than 60 Hz fields, you can flatten the frequency response with a 6 dB/octave de-emphasis network (low-pass R-C filter with pole well below 60 Hz). 47K and .1 uF would be minimum values.

I haven't tried this. This info comes from a letter by Lawrence Fleming of Innes Instrument Co, published in Electronic Engineering Times, Oct 15, 1990.

By the way, for those concerned about health effects of 60 Hz fields, gary@hpfcbig.SDE.HP.COM borrowed a field meter a couple years ago and measured fields from various devices in his home:

S300 15" color screen (2 feet away)	2 milligauss
Microwave oven (turned on, right at the door)	70 milligauss
Electric stove (turned on, right over burners)	45 milligauss
Small 13" TV, measured right at the screen	7 milligauss
Ambient level inside the house	around 1 milligauss
Directly under high-tension power lines	35 milligauss
100 feet from power lines	6 milligauss
150 feet from power lines	2 milligauss

For reference, the Earth's magnetic field is about 500 milligauss. I guess the fear is that 60 Hz fields are much more harmful than the "DC" earth field.

AL N1AL

Date: Thu, 21 Jan 1993 03:35:57 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!uwm.edu!cs.utexas.edu!
hermes.chpc.utexas.edu!news.utdallas.edu!feenix.metronet.com!
marcbg@network.UCSD.EDU
Subject: help needed
To: info-hams@ucsd.edu

In article <1jig0iINNg1@slab.mtholyoke.edu> wvogel@MtHolyoke.edu (keeper of the tone) writes:

>
>i recently purchased a YAESU FYG-3U uhf ht but unfortunately it came without
>any paperwork or a charger
>can anyone on the net help me with any info for this radio?
>anything anyone would have would be greatly appreciated
>
>will gladly pay copying and mailing costs if any involved
>
>wvogel@mtholyoke.edu

A VERY good place (and they are not very expensive) is Yeasu parts, at 310-404-2700.

Marc Grant
N5MEI
marcbg@feenix.metronet.com

Date: Tue, 19 Jan 1993 17:02:45 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!usenet.ins.cwru.edu!magnus.acs.ohio-state.edu!zaphod.mps.ohio-state.edu!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpfcs!barryf@network.UCSD.EDU
Subject: HTs at Disneyland
To: info-hams@ucsd.edu

I've been to an ARRL convention at Disneyland. 'Lots-o HT's there.

But then again, that was before the government made drugs a problem.

Date: 21 Jan 93 01:28:49 GMT
From: gossip.pyramid.com!pyramid!infmtx!seashore!randall@uunet.uu.net
Subject: ICOM-725 Info. (was ICOM-726)
To: info-hams@ucsd.edu

houlejm@ireq.hydro.qc.ca (Jean-Marie Houle) writes:

>Does the AH-3 works with the 735? The literature I have mentions the
>AH-2 for use with the 735. Maybe the AH-3 is a newer model that can
>replace the AH-2.
>I am asking because I am going to put the 735 in the boat next summer and
>I will need one.

If you have an AH-3, you can purchase an AH-2 controller unit from Icom for about \$150. (They are frequently out-of-stock though.) This will make your AH-3 work with a 735.

If you have neither tuner, then just buy an AH-2.

The controller unit is a bit bulky, and it has several cables that must be connected to the 735. It's a pretty bad design if you ask me. The AH-3 on the other hand connects to the 726 with just one cable.

73 DE KK6MY

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Randall Rhea                                Informix Software, Inc.
Project Manager, MIS Sales/Marketing Systems  uunet!pyramid!infmx!randall
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Date: 21 Jan 93 01:32:18 GMT
From: olivea!gossip.pyramid.com!pyramid!infmx!seashore!randall@ames.arpa
Subject: ICOM-725 Info. (was ICOM-726)
To: info-hams@ucsd.edu

k2ph@dxis.att.com (Bob Schreibmaier) writes:

>Has anyone had the opportunity to compare the 735 with the new 728?
>Their street price seems to be very comparable these days -- the
>728 may be about \$50 cheaper. Particularly, how do the receivers
>compare?

It depends on what you want to use the rig for.

I find that the receivers are nearly identical. I've played with them next to each other and can hear no difference. The specs are almost identical.

If you are interested in working AM at all, (especially mobile) I would get a 735, as its noise limiter works on AM. The 735 also has a notch filter, which is occasionally useful on 40m SSB to get rid of heterodynes.

For overall SSB mobile work, I think the 728 is better designed. It is easier to change bands and frequencies. The display is better designed. The AH-3 automatic antenna tuner also makes a great

combination with this rig.

73 DE KK6MY

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Randall Rhea	Informix Software, Inc.
Project Manager, MIS Sales/Marketing Systems	uunet!pyramid!infmtx!randall

Date: Thu, 21 Jan 1993 06:32:02 GMT
From: cs.ubc.ca!unixg.ubc.ca!kakwa.ucs.ualberta.ca!vm.ucs.UAlberta.CA!
CJSRFM@beaver.cs.washington.edu
Subject: Northern Alberta Hamfest 93
To: info-hams@ucsd.edu

The Northern Alberta Hamfest '93 is being held on May 28, 29, 30, 1993. The location is: Shakers Acres RV Park, 21530 - 103 Avenue, Edmonton, Alberta.

For more information or pre-registration forms please contact via snail-mail:

Northern Alberta Hamfest 93
c/o Jim Steene VE6JDS
9319 - 95 Street
Edmonton, Alberta
T6C 3X1
CANADA
Phone: 403-469-2595

or via packet:

VE6RHS @ VE6MC.#EDM.AB.CAN.NOAM

or you can drop me your name and address here.

- 73 -

Ray Semenovff - VE6RHS

Date: 21 Jan 93 01:43:06 GMT
From: olivea!gossip.pyramid.com!pyramid!infmtx!seashore!randall@ames.arpa
Subject: QRP on 20, 30, or 40 meters

To: info-hams@ucsd.edu

swilhelm@chnews (Spence Wilhelm) writes:

>I have been considering purchase of a QRP rig for portable use, backpacking,
>camping, etc. Since most of the QRP rigs that I have been looking at are
>single band rigs, what band would be best to get? I hope to shortly upgrade to
>GENERAL class so 80, 40, 30, 17, 15, 10 meter operation will all be possible.
>We are approaching the low side of the sun spot cycle so 10 and 15 don't look
>good for the near future. Have any of you an opinion? I am also interested
>in you experiences with QRP in general. Is there enough interest to start a
>QRP sub group?

30 meters is a good QRP band, as there are power limitations, (no
KW stations to jump on you) and the propagation is often very good.

73 DE KK6MY

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Randall Rhea	Informix Software, Inc.
Project Manager, MIS Sales/Marketing Systems	uunet!pyramid!infmx!randall

Date: Wed, 20 Jan 1993 22:04:41 GMT
From: decr1!news.crl.dec.com!dbased.nuo.dec.com!nntpd.lkg.dec.com!
nntpd2.cxo.dec.com!10540.enet.dec.com!jepson_st@decwrl.dec.com
Subject: re. USCG CW changes
To: info-hams@ucsd.edu

The concept that CW is of no value in amateur radio clearly comes from
someone who doesn't use the mode. The idea that CW is dead in amateur
bands comes from someone who doesn't listen to the CW segments of our
HF bands or would like it to die for reasons of their own.
Whether the U.S.C.G. or anyone else uses the mode isn't relevant to
amateur radio licensing requirements.
All the arguments for and against the mode aside. If it was a useless
mode, no-one would use it. It is in wide use on the amateur bands and
should be continued as a requirement for licensing on the HF bands.
If you don't want to take the time to learn CW then stay on VHF where
it's not in common use.
Steve...AI7W

Date: Thu, 21 Jan 1993 07:05:44 GMT

From: sun-barr!cs.utexas.edu!asuvax!ukma!miles@ames.arpa
To: info-hams@ucsd.edu

References <C149D9.L1q@avalon.nwc.navy.mil>, <1993Jan20.20708.22965@ms.uky.edu>,
<1993Jan21.054108.24783@wam.umd.edu>E
Subject : Re: DJ580T DSM question

I believe you can use all alphabet letters, numbers, and the *, and # in the
DJ580T "message code". This gives quite a few options for codes. :)
I have already started quite a list for myself and friends.

End of Info-Hams Digest V93 #88
